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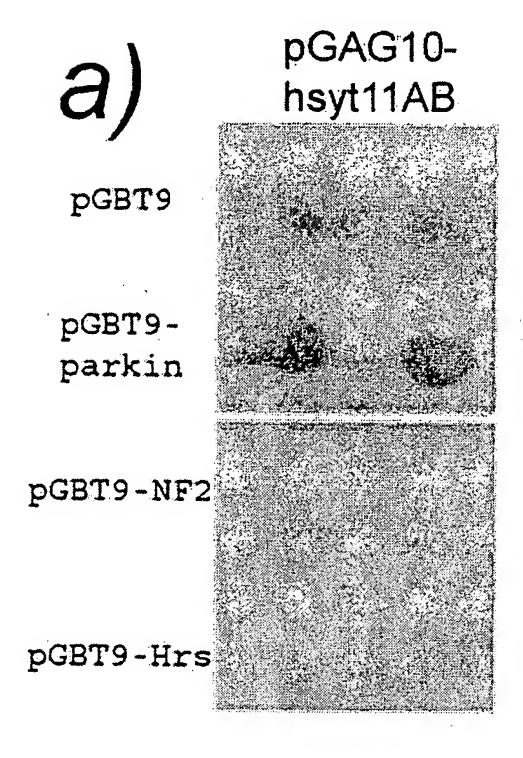
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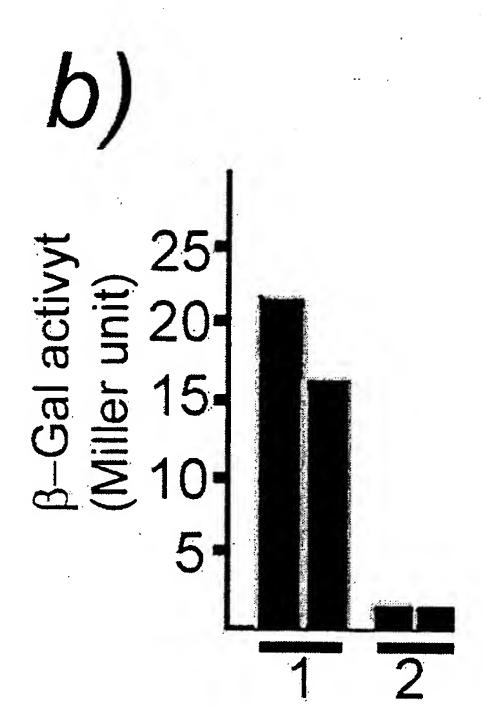
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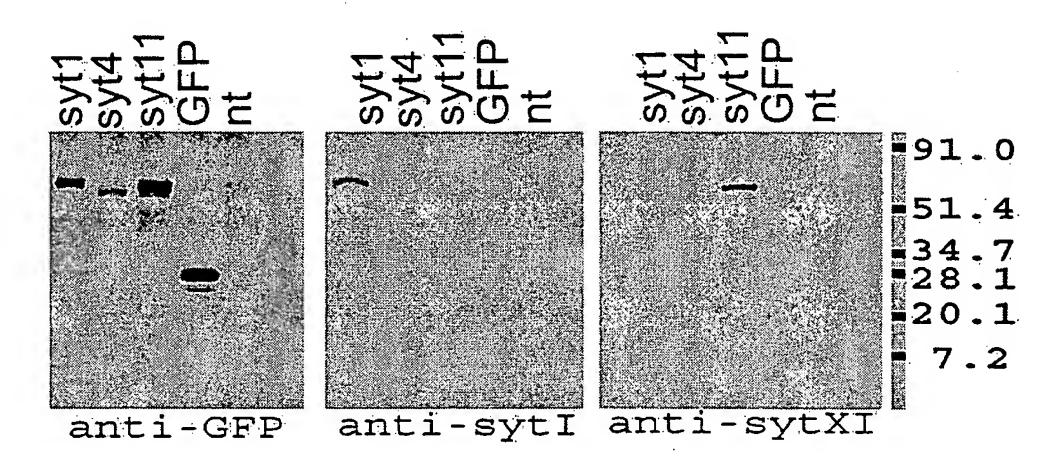
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a)



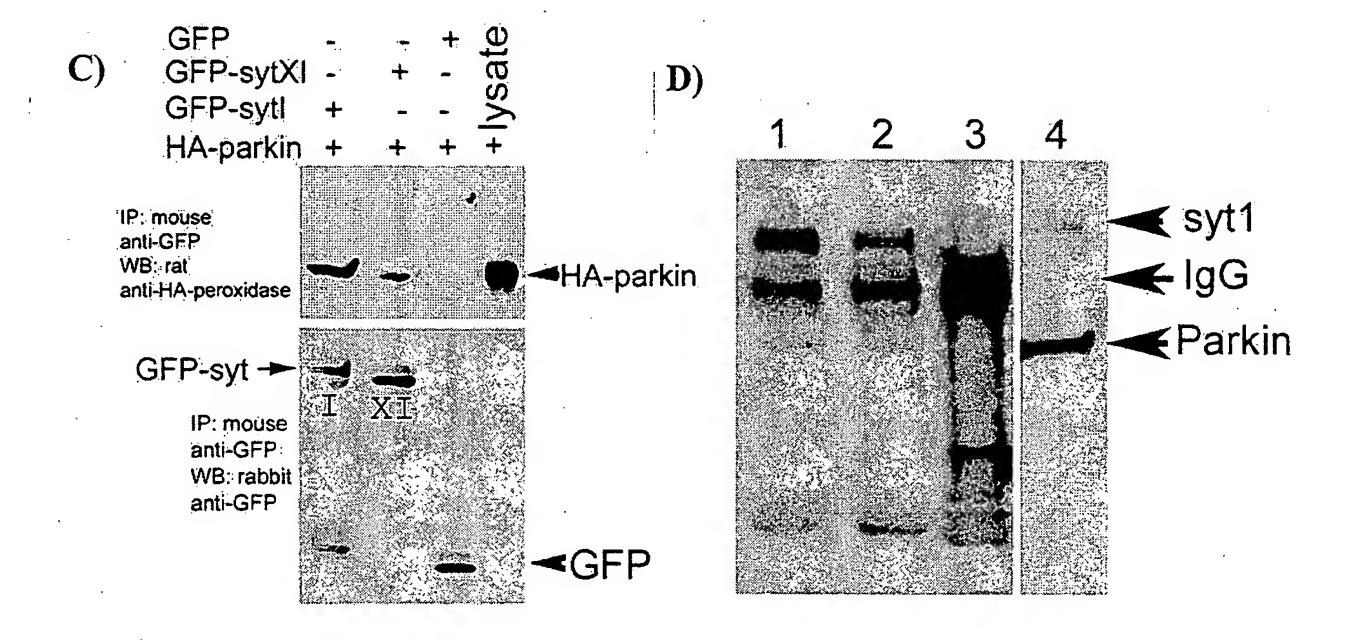
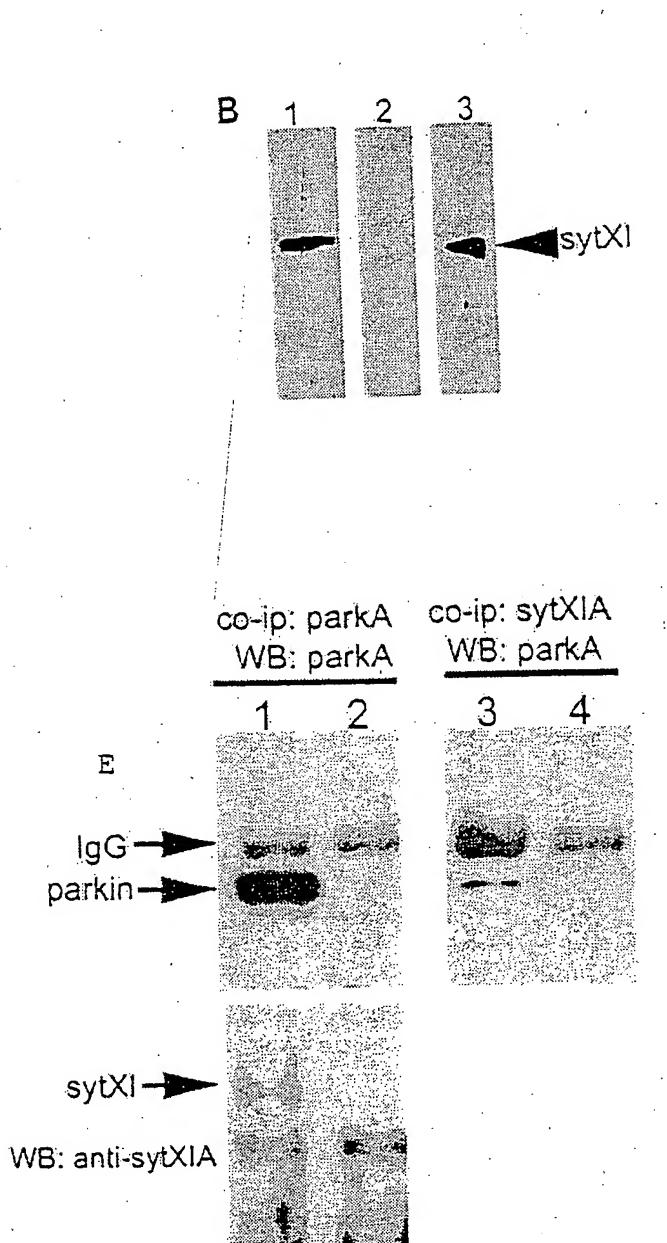
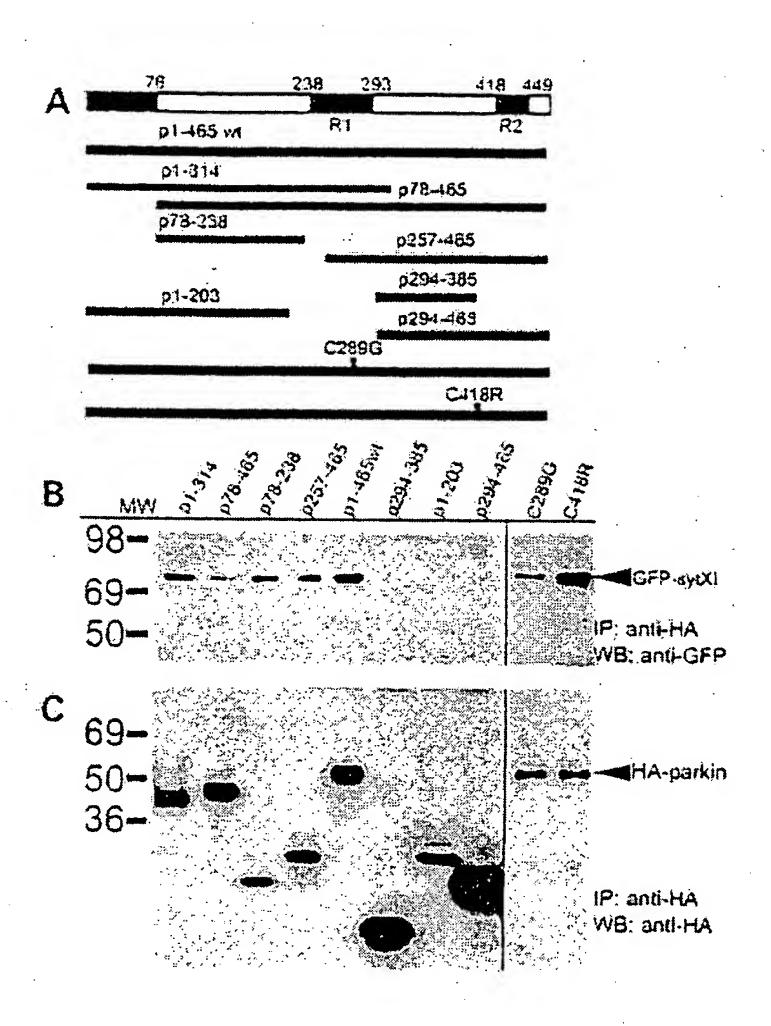


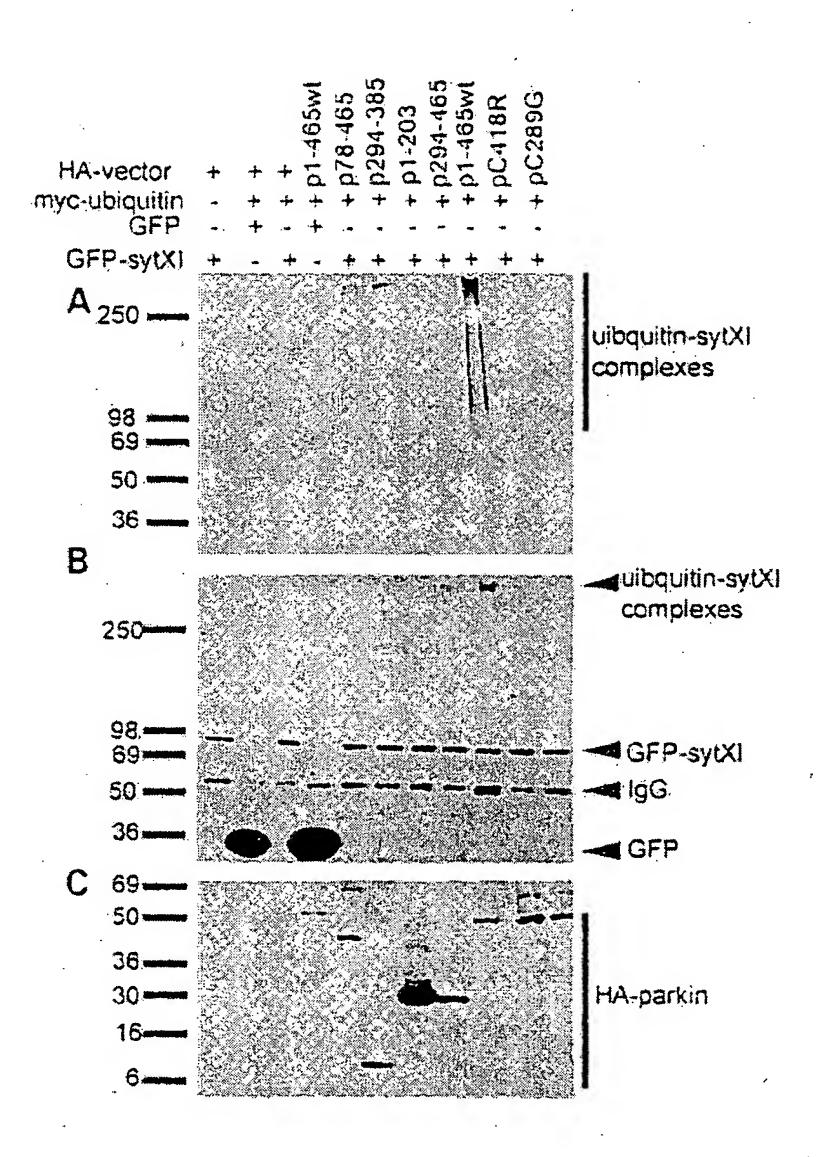
FIGURE 2



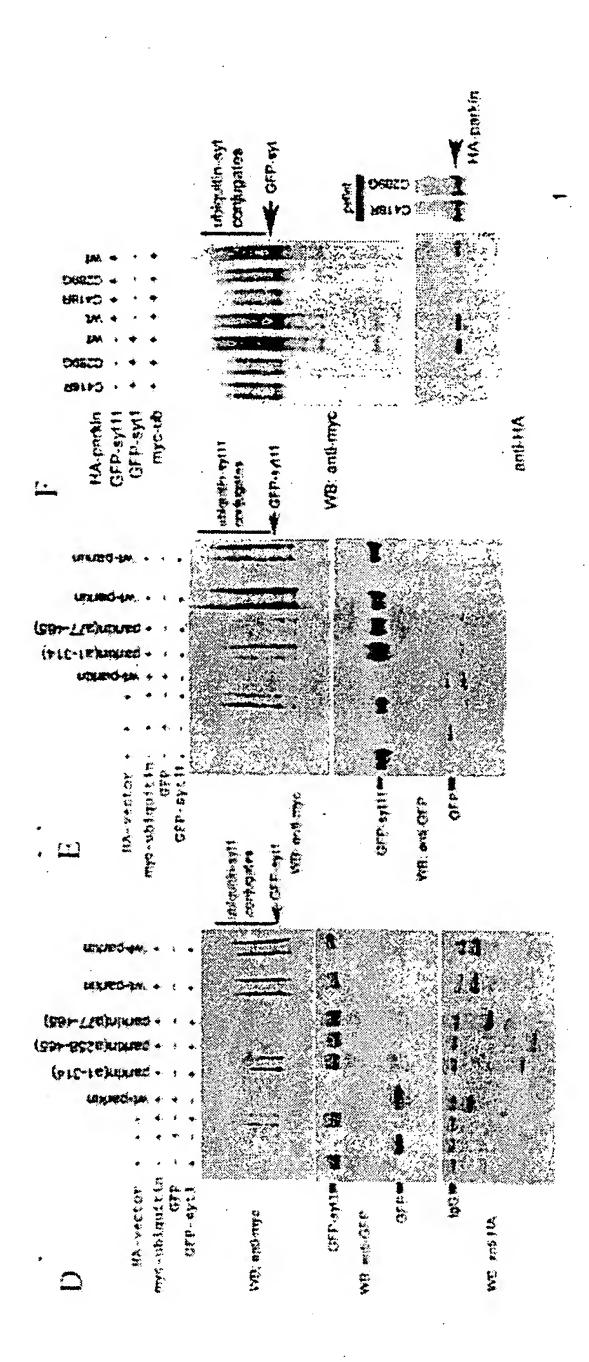
Figures 2B & 2E



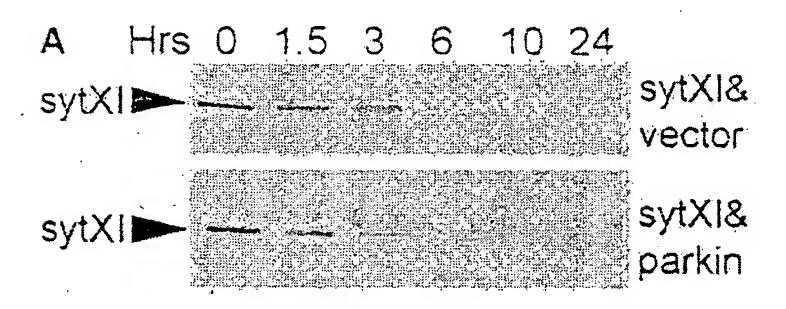
Figures 3A-C

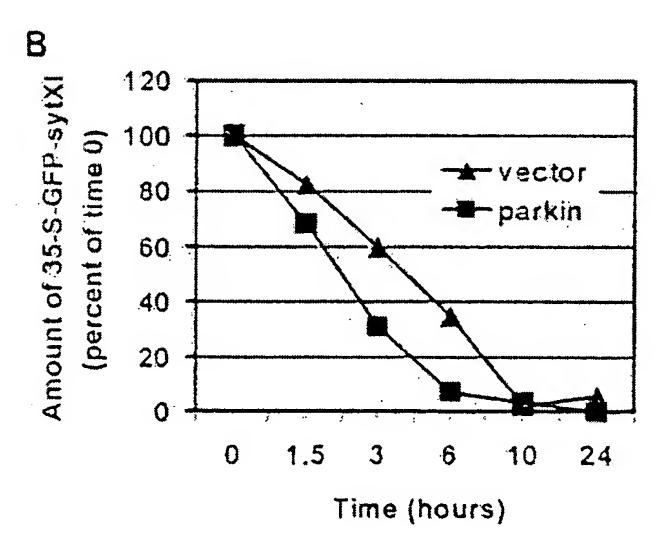


Figures 4A-C



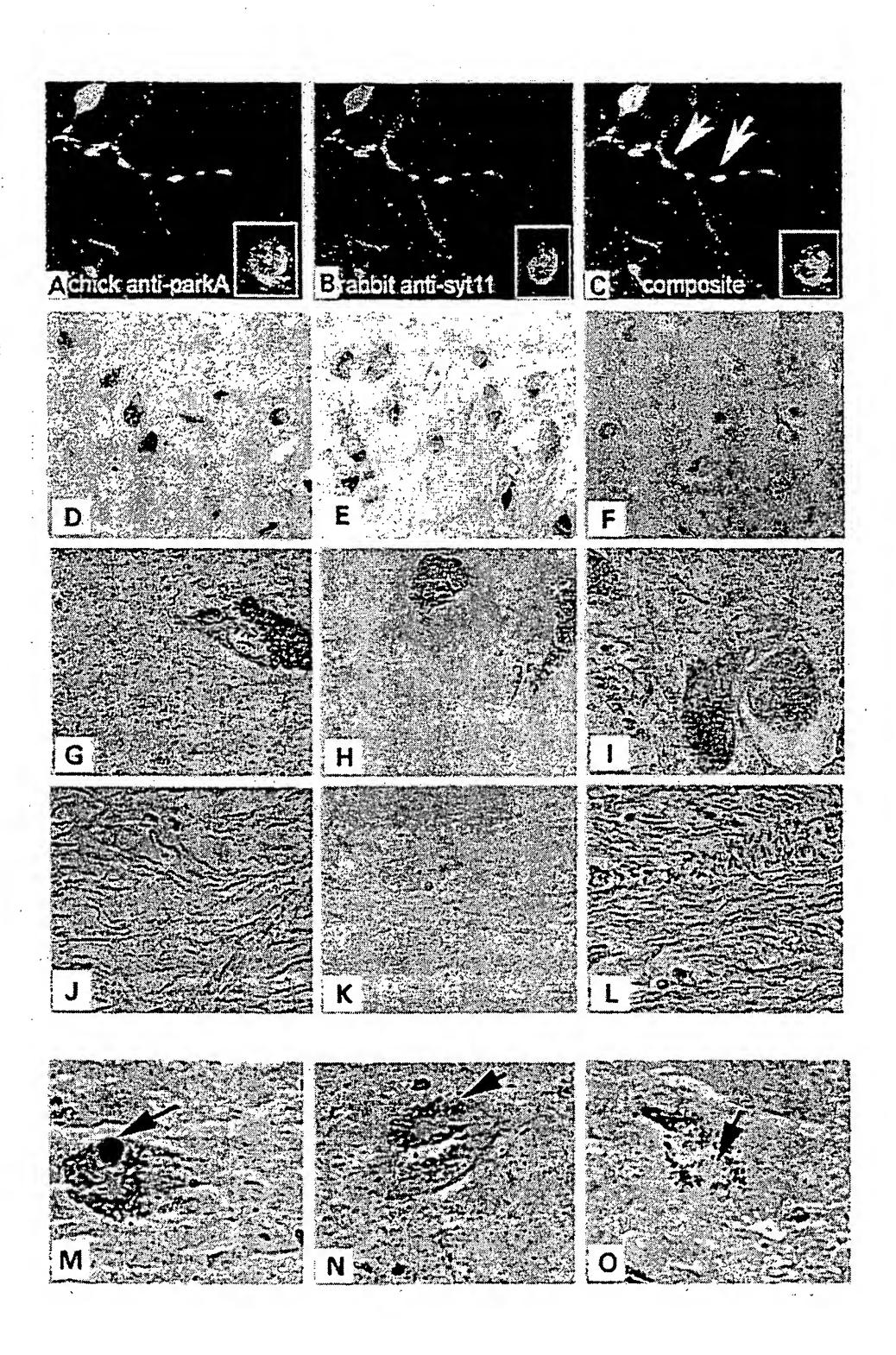
FEGURE 4





Figures 5A & 5B

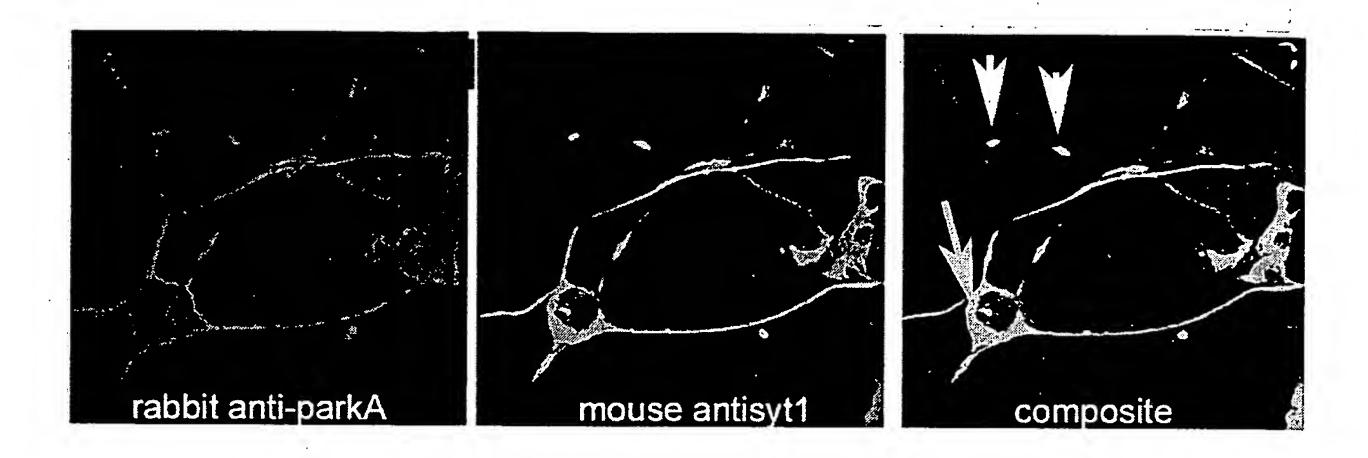
Title: PARKIN INTERACTING POLYPEPTIDES AND METHODS OF USE
Inventor: Pulst and Huynh
Filing Date: Herewith
Attorney Client-Matter No.: 66783-145
Tel: 858-535-9001



Figures 6A-O

Inventor: Pulst and Huynh
Filing Date: Herewith
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Tel: 858-535-9001



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FIGURE 6

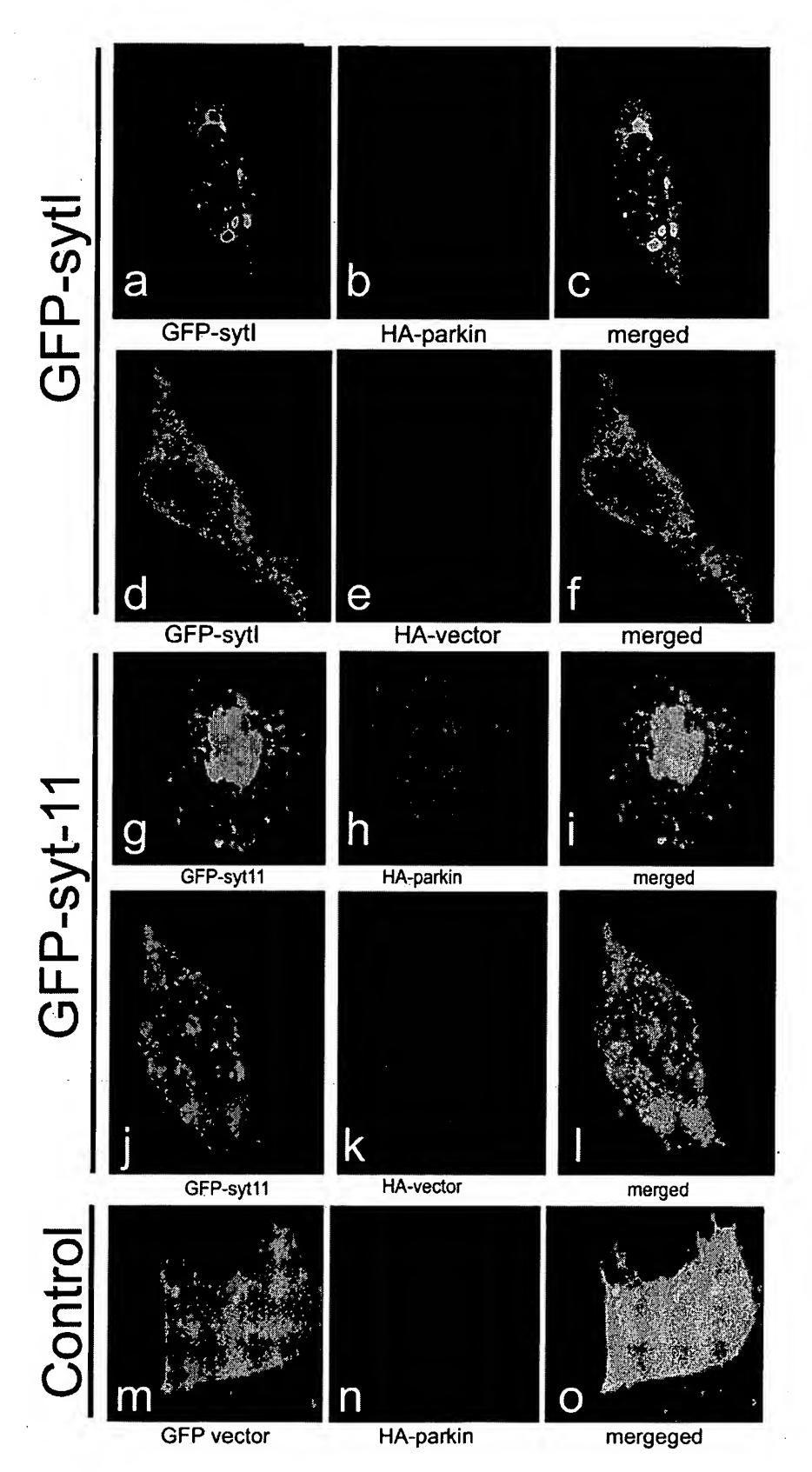


FIGURE 7

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Filing Date: Herewith
Attorney Client-Matter No.: 66783-145
Tel: 858-535-9001

agtcctcaacgagggtccagtgtaggcagtgacaggcacatagctgttgagctcagcga -----+ 60 tcaggagttgctccccaggtcacatccgtcactgtccgtgtatcgacaactcgagtcgct ggcggggctgtgatacctcggcccggtttttaccgatgtcctcctcccgcaggtagaact 61 -----120 ccgccccgacactatggagccgggccaaaaatggctacaggaggagggcgtccatcttga gggaggaaagatcagcccactgggcagtgccctggtcatgtagggtaacagccttgaccc 121 180 ccctcctttctagtcgggtgacccgtcacgggaccagtacatcccattgtcggaactggg caccaaggatgatgttcttagcgatctccacgcccaggccccgcaggcctgataccagga 181 240 gtggttcctactacaagaatcgctagaggtgcgggtccggggcgtccggactatggtcct $\verb|cactggatgtctggagccgcttcattgcctcATGGCCCAACACATACAGCTGCCGGGAGT|\\$ 241 300 -----gtgacctacagacctcggcgaagtaacggagTACCGGGTTGTGTATGTCGACGGCCCTCA MAQHIQLPGV 301 360 K A L V Y V C F T A V L G H S V G W H R AGGGCACTTCGGACAACACGGACTGGGCAGGGGAGCAGTTAGAACCCGGCTTTGGATCAG 361 -----+ 420 TCCCGTGAAGCCTGTTGTGCCTGACCCGTCCCCTCGTCAATCTTGGGCCGAAACCTAGTC G H F G Q H G L G R G A V R T R L W I R GCCCGGACACGCGACGTTTCTTGGACAGCGGCGAGCTGGACATCAATGCCGGTTCCCCGG 480 CGGGCCTGTGCGCAAAGAACCTGTCGCCGCTCGACCTGTAGTTACGGCCAAGGGGCC P G H A T F L G O R R A G H O C R F P G 540 CAGCGCGGCGGCGTTGAGGAGTTCCTCGGCTTCGGTTCGGCCCGGCGTGGGAGGAA SRRRQLLKEPKPSPAAPSSF CTCCTCCTCCCCGCCTGGGCCGCCTAGAATCGCCGCTGCCGCCTTCTCCCCCCGG 541 -----+----+ 600 GAGGAGGAGGGGCGGACCCGGCGGATCTTAGCGGCGACGCGGAAGAGAGGGGGCCC S S S P P P G P P R I A A A A F S S P G CCGTTGTGGTTGTCCCTGCCACCTCCTTACAGCCGAGCCGCCGACACAAGATGG

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	GCTt 	GAG	CCT	GGG	GCC	GGA	ACA	AAA	ACCT	TGG	GCC	CCA	.CCC	CCA	GAA	ACC	CGG	AT
GCCTG G R	CGAa L	CTC S	GGA L	CCC(G	CGG P	CCT E	TGI Q	TTTT N	GGA L	ACC G	CGG P	GGT H	GGG P	GGT Q	CTT K	TGG P	GCC G	TA(
CAAGC	GGG	CCGC	GCC	TAC	TTA	TGA	ATC	CATO	CAT	'AAA	GTT	CCC +	TAC	TCG	GTI	GCG	ATT	CA:
GTTCG K R	CCC6 A	GGCG A	CGG P	ATG/ T	AAT Y	ACT E	TAG S	STAC C	GTA I	TTT K	CAA F	GGG P	ATG T	AGC R	CAA L	ACGC R	TAA F	GTZ I
TCGGT	TAGA	AGT	GGA	ACA	GCA -+-	CCA	CCI	GGT	GGA	CAT	TGT	GGC +	AGT	'AAC	AAC	GAA	AAC	AG
AGCCA R L	ATCI E	TTCA V	CCT E	TGT(Q	CGT H	GGT H	'GGA L	ACC <i>F</i> V	ACCT D	GTA I	ACA V	CCG A	TCA V	TTG T	TTG T	CTT K	TTG T	TC(G
TaAAA AtTTT		-+			-+-			+				+		~	-+-			
K T	E		T	P	H •	G	M	R	L	M	N	E .	L	L	Q ·	P	G	C
AGTTC		+			-+-			+				+			-+-			+
Q G	S	E •	E	K	P	L	R	P .	C	F	L	I	I	S	Y •	ACG	*	
TTGAG'															CAT -+-	GGA	AGC	CAC
AACTC	ACCA	ACC.	ATC:	GTT(GTT	GGT	CGT	TGG.	TCT	TTC	GTC'	TAC	AAT	TTT	GTA	CCT	TCG	GTO
ACACC	CCCA	TTC.	ATG	AATI	AAV	TGA	TGA	TCT	TGC	AGG	GGC(CCG	GAA	GCC.	AAG	GAG.	ACC	CAC
TGTGG	GGT	'AAG	TAC'	TTA	VTT.	ACT.	ACT	'AGA	ACG	TCC	CCG	GGC(CTT	CGG	TTC	CTC	TGG	GTC
GCCAC	AACI	'TAC'	TTC	ATG	· \AT	AAT	GCA	TGA	.GGC	CCA	GTG	• GGT'	TGG.	AAT.	• AAA	AGG	GGC.	ACG
CGGTG	rtga	ATG	AAG'	TACT	-+- 'AT	TTA	 CGT	ACT	CCG	GGT	-, CAC(CCA	ACC	TTA	rtt	TCC	CCG	TGC
		•			•			•		T 00	GAA	• •	~~~	~ ~ ~ .	•			•

FIGURE 8A CONTINUED

Inventor: Pulst and Huynh
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1201	+-GTGTGAGAGGGTCCAGGACTTATTACTTAATACGACGACGTCATCGAGTTGGACCTTTGA	1260
1261	+ GTCTCTCCAGTTCTTTCCAAGGTGGGTTAAATACTTAATACGTATTCCGCTTCTTTGTGG	1320
1321	CAAGACTGCCCTCCCCTCATTTACATAAATATTATACTAGCATTTACCATCTCACTTCT+GTTCTGACGGGACGGGGAGTAAATGTATTATAATATGATCGTAAATGGTAGAGTGAAGA	1380
1381	AGGAATACTAGTATATCGCTCACACCTCATATCCTCCCTACTATGCCTAGAAGGAATAAT+ TCCTTATGATCATATAGCGAGTGTGGAGTATAGGAGGATGATACGGATCTTCCTTATTA	1440
1441	ACTATCGCTGTCG	

FIGURE 8A CONTINUED

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gaattcgcggccgcgtcgacCTCCTTCTCCTCCTCCCCGCCGCCTGNGCCGCCTAGAATCGCCGC TGCCGCCTTCTCCCCCGGCCGTTGTGGTTGTGGTTGTCCCTGCCACCTCCTTACA GCCGAGCCGCCGACACAAGATGGCGGACGCTGAGCCTGGGGCCCGGAACAAACCTT GGGCCCCACCCCAGAAACCCGGATGCAAGCGGGCCGCCCTACTTATGAATCATG CATAAAGTTCCCTACTCGGTTGCGATTCATTCGGTTAGAAGTGGAACAGCACCACCT GGTGGACATTGTGGCAGTAACAACGAAAACAGGTNAAACAGAAGCCACGCCTCATG GAATGCGACTAATGAATGAATTGTTGCAGCCAGGCTGTCAAGGAAGCGAAAAAAA ACCGTTAAGGCCATGCTTCCTGATTATAAGTTATGCATGAAGTTGAGTGGTAG ACTTAACAACCAGCAACCAGAAAGCAGATGTTAAAAACATGGAAGCCACACACCCCC ATTCATGAATAATGATGATCTTGCAGGGGCCCGGAAGCCAAGGAGACCCAGGCCAC AACTTACTTCATGAATAATGCATGAGGCCCAGTGGGTTGGAATAAAAGGGGCACGC CCGCCTATTGCTGCATCTAATACACTGTAAGCAGGGAAATGGGGCTGCTGCAGGGA AAACACACTCTCCCAGGTCCTGAATAATGAATTATGCTGCTGCAGTAGCTCAACCTG GAAACTCAGAGAGGTCAAGAAAGGTTCCACCCAATTTATGAATTATGCATAAGGCG AAGAAACACCCAAGACTGCCCTGCCCCTCATTTACATAAATATTATACTAGCATTTA CCATCTCACTTCTAGGAATACTAGTATATCGCTCACACCTCATATCCTCCCTACTATG CCTAGAAGGAATAATACTATCGCTGTCGacgcgggccgcgaattc

FIGURE 8B

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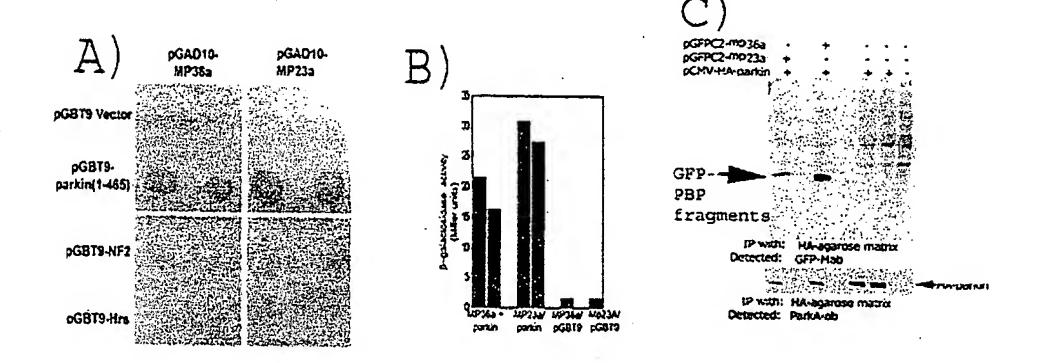


FIGURE 9

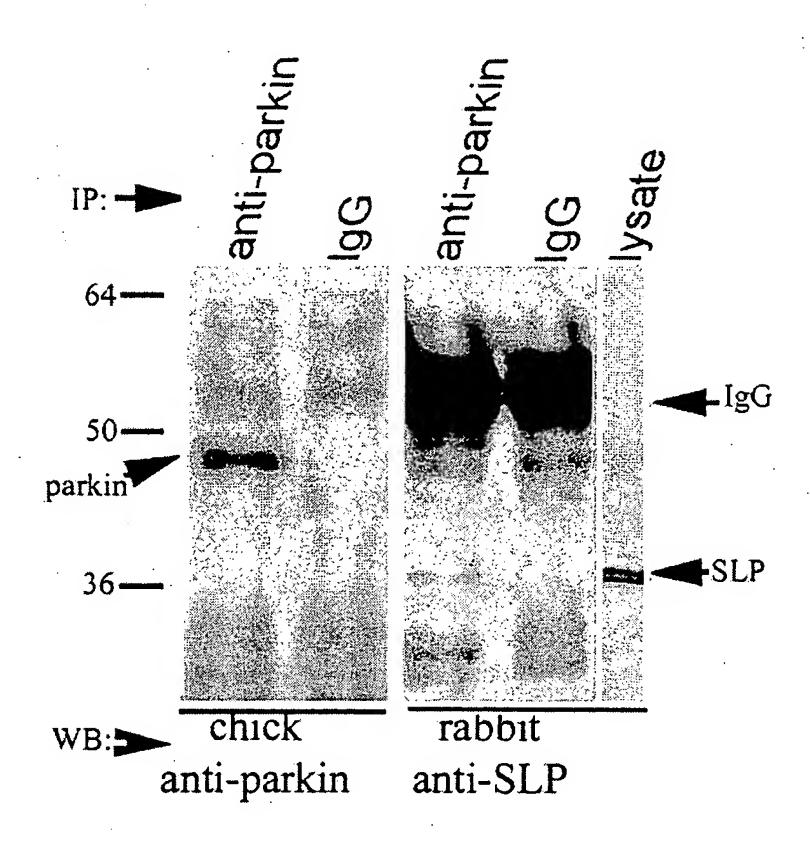
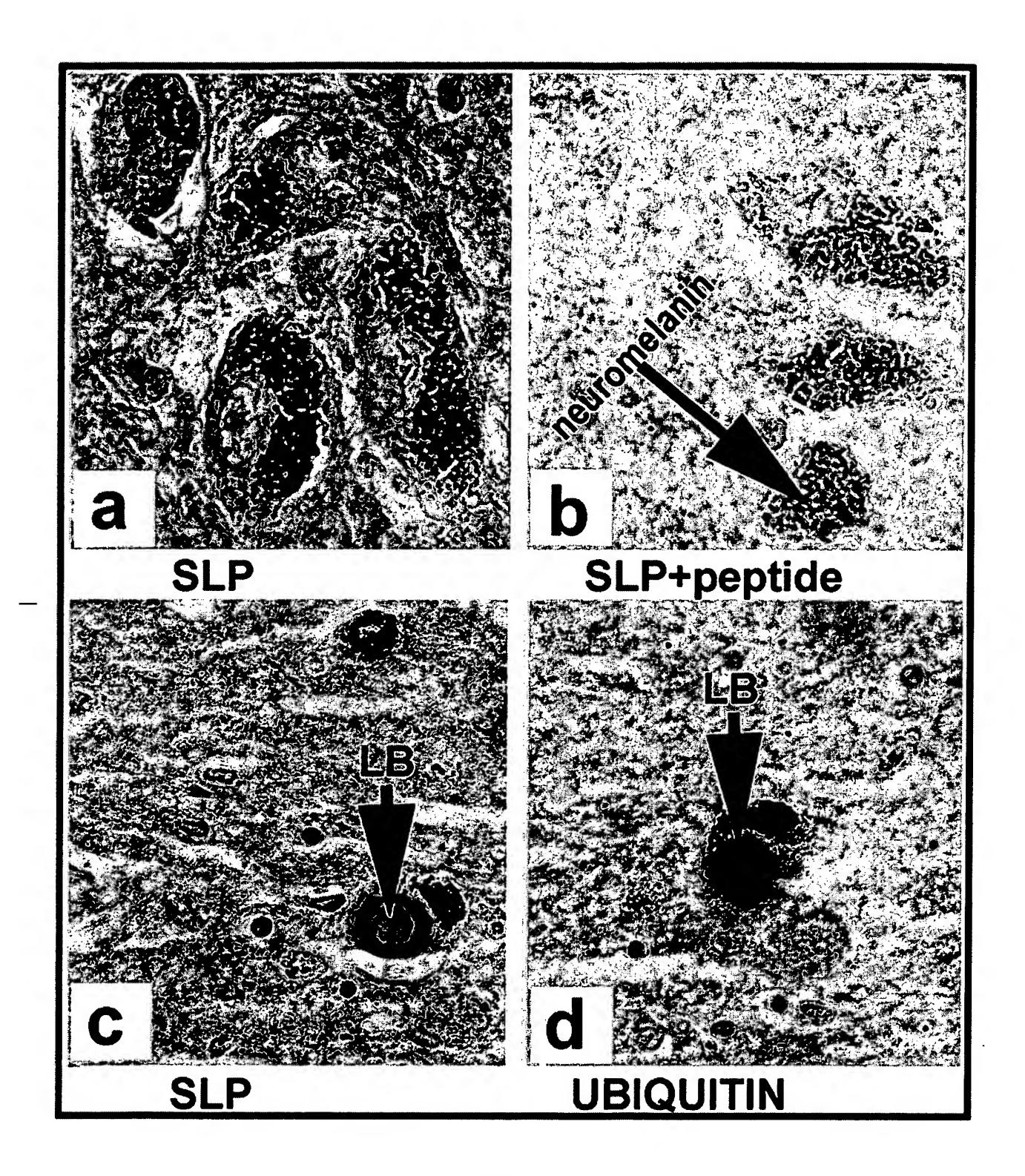
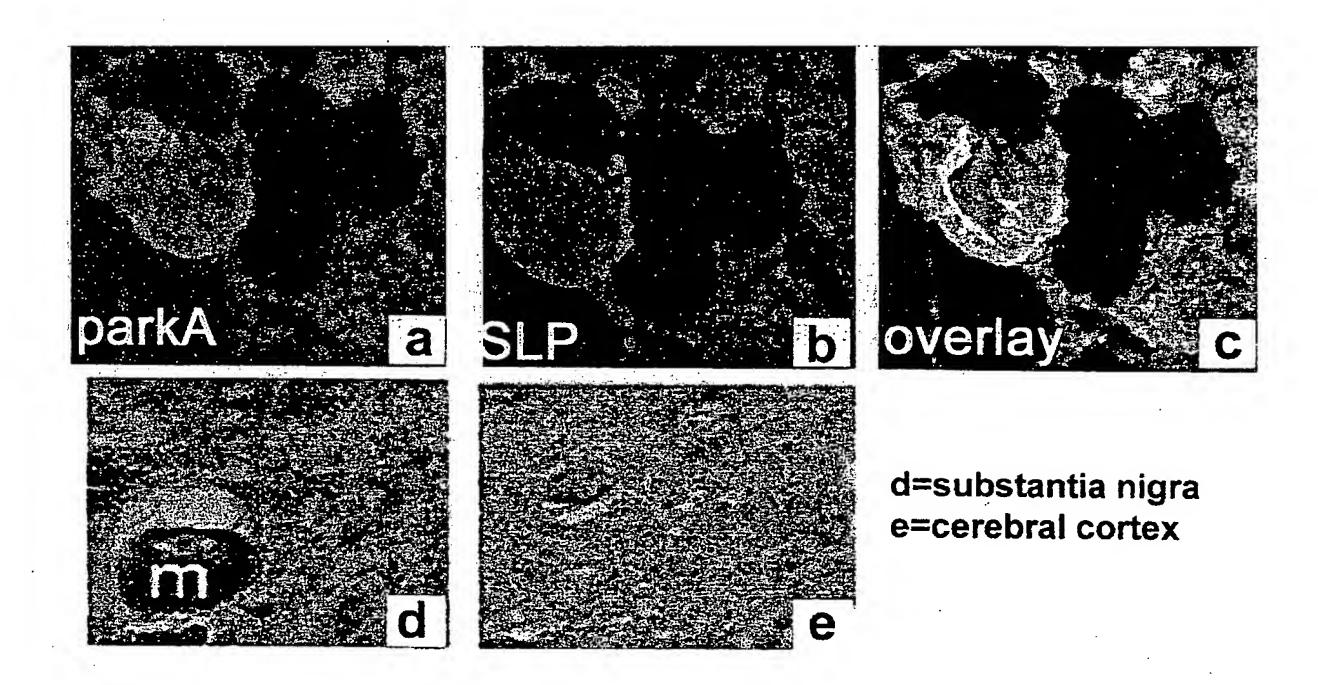


FIGURE 9D





Title: PARKIN INTERACTING POLYPEPTIDES AND METHODS OF USE Inventor: Pulst and Huynh Filing Date: Herewith

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1 agagcactgg ggaccgagac ccggcaccac ctcccggtcc gccctccagg gaaaacggga 61 aaactagcaa gagctagcaa gaactagcaa gagcttgaac aaacgcctgg actcagattg 121 gaagactgct catttgtcta ctgcctcatt cctggaaatt gcactggaac tgtctgatta 181 agaaaaacag aataattctg aaagaaagaa aacaaagaaa aacatactcc agaattccta 241 atagaacact tcacctgaac ctaaaatggt gagcgagagt caccatgagg ccctggcagc 301 cccgcctgtc accactgtcg cgactgttct gccaagcaat gccacagagc cagccagtcc 361 tggagaagga aaggaagatg cattttctaa gctgaaggag aagtttatga atgagttgca 421 taaaattcca ttgccaccgt gggccttaat tgcaatagcc atagtcgcag tccttttagt 481 cctgacctgc tgcttttgta tctgtaagaa atgtttgttc aaaaagaaaa acaagaagaa 541 gggaaaggaa aaaggaggga agaatgccat taacatgaaa gatgtaaaag acttagggaa 601 gacgatgaaa gatcaggccc tcaaggatga tgatgctgaa actggattga cagatggaga 661 agaaaaagaa gaacccaaag aagaggagaa actgggaaaa cttcagtatt cactggatta 721 tgatttccaa aataaccagc tgctggtagg gatcattcag gctgccgaac tgcccgcctt 781 ggacatgggg ggcacatctg atccttacgt gaaagtgttt ctgctacctg ataagaagaa 841 gaaatttgag acaaaagtcc accgaaaaac ccttaatcct gtcttcaatg agcaatttac 901 tttcaaggta ccatactcgg aattgggtgg caaaacccta gtgatggctg tatatgattt 961 tgatcgtttc tctaagcatg acatcattgg agaatttaaa gtccctatga acacagtgga 1021 ttttggccat gtaactgagg aatggcgtga cctgcaaagt gctgagaagg aagagcaaga 1081 gaaattgggt gatatctgct tctcccttcg ctacgtacct actgctggta agctgactgt 1141 tgtcattctg gaggcaaaga acctgaagaa gatggatgtg ggtggcttat ccgatcctta 1201 tgtgaagatt catctgatgc agaatggtaa gaggctgaag aagaaaaaga caacaattaa 1261 aaagaacaca cttaacccct actacaatga gtcattcagc tttgaagtac cttttgaaca 1321 aatccagaaa gtgcaggtgg tggtaactgt tttggactat gacaagattg gcaagaacga 1381 tgccatcggc aaagtctttg tgggctacaa cagcaccggc gcggagctgc gacactggtc 1441 agacatgctg gccaacccca ggcgacctat tgcccagtgg cacaccctgc aggtagagga 1501 ggaagttgat gccatgctgg ccgtcaagaa gtaaaggaaa gaagaagcct ttctgcattt

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FIGURE 12A CONTINUED

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MVSESHHEALAAPPVTTVATVLPSNATEPASPGEGKEDAFSKLK

DMLANPRRPIAQWHTLQVEEEVDAMLAVKK

EKFMNELHKIPLPPWALIAIAIVAVLLVLTCCFCICKKCLFKKKNKKKGKEKGGKNAI
NMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEEKLGKLQYSLDYDFQNNQLL
VGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPVFNEQFTFKVPYS
ELGGKTLVMAVYDFDRFSKHDIIGEFKVPMNTVDFGHVTEEWRDLQSAEKEEQEKLGD
ICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTTIKKN
TLNPYYNESFSFEVPFEQIQKVQVVVTVLDYDKIGKNDAIGKVFVGYNSTGAELRHWS

FIGURE 12B

Inventor: Pulst and Huynh
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1 agaaggcgga gcctacctct catcaggacc agtctgactg cacctgcatc cttagctcag 61 agcatccccg gagcatctta agagctgagc gcagctgaca actaggggcc ggaccgtcgc 121 aggaggegte egetggatae etteceeett eeetgaceta gagetetaea getgetgeet 181 cggtactgac cgagggttcc cagagctgtc tcaccattgc aaaaacgtta tagcaacagc 241 ctctgattac gacatggctg agatcaccaa tatccgacct agctttgatg tgtcaccggt 301 ggtggccggc ctcatcgggg cctctgtgct ggtggtgtgt gtctcggtga ccgtctttgt 361 ctggtcatgc tgccaccagc aggcagagaa gaagcacaag aacccaccat acaagtttat 421 tcacatgctc aaaggcatca gcatataccc agagaccctc agcaacaaga agaaaatcat 481 caaagtgcgg agagacaaag atggtcctgg gagggaaggt ggacgtagga acctgttggt 541 ggacgcagca gaggctggcc tgctaagccg agacaaagat cccagggggc ctagctctgg 601 atcttgtata gaccaattac ccatcaaaat ggactatggg gaagaactaa ggagccctat 661 tacaagcctg acccctgggg agagcaaaac cacctctcca tcatctccag aggaggatgt 721 catgctagga teceteacet teteagtgga etataaette eegaaaaaag eeetggtggt 781 gacaatccag gaggcccacg ggctgccagt gatggatgac cagacccagg gatctgaccc 841 ctacatcaaa atgaccatcc ttcctgacaa acggcatcgg gtgaagacca gagtgctgcg 901 gaagaccctg gaccctgtgt ttgacgagac cttcaccttc tatgtcatcc cctacagcca 961 gctgcaggac ctggtgctgc acttccttgt cctcagcttt gaccgcttct ctcgggatga 1021 tgtcattggc gaggtcatgg tgccactggc aggggtggac cccagcacag gcaaggtaca 1081 actgaccagg gacatcatca aaaggaatat ccagaagtgc atcagcagag gggagctcca 1141 ggtgtctctg tcatatcagc ctgtggcaca gagaatgaca gtggtggtcc tcaaagccag 1201 acacttgccg aagatggata tcaccggtct ctcaggtaat ccttatgtca aggtgaacgt 1261 ctactacggc agaaagcgca ttgccaagaa gaaaacccat gtgaagaagt gcactttgaa 1321 ccccatcttc aatgaatctt tcatctacga catccccact gacctcctgc ctgatatcag 1381 catcgagttc ctcgttatcg acttcgatcg caccaccaag aatgaggtgg tggggaggct 1441 gatcctgggg gcacacagtg tcacagccag tggtgctgaa cactggagag aggtctgcga

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1501 gagcccccgc aagcctgtgg ccaagtggca cagtctgagc gagtactaat cctgttcttc 1561 tctcctctaa tccccggggg ccaagctggg gagggatgtg gaggggaaaa agatgacaga 1621 gaagtggact ccaaacctca ttttagttgt agaagaaaat ttcttacaaa acaaattcca 1681 caaagaacac cctatatgac cacagctgca gatcagttct tagcaatgat gttttttttt 1741 ctgctttgca aggcgctaga atcttttatt ttactttatt ttttttgagg tggagtttcg 1801 ctcttgttgc ccgggctgga gtgcaatggt gagatctcaa ctcactgcaa cctctgccct 1861 tcaggttcaa gtgattctcc tccctcagcc tcccaagtag ctgggattac aggcacccac 1921 gagcatgccc ggctaatttt ttgtattttc agtagagatg ggtttcacca tgttggccag 1981 gctggtctcg aattccagac ctcaggtgat ccacccgcct cggcctccca aagtgctggg 2041 attacaggtg cgagccaccg tgcccggcct ctggttttgt tttgttttt tttttaatg 2101 ggggacaaaa gagagggaaa gacccctata aatctatata taacaatgta accatatact 2161 tgcatgtcta atacaaactg aagaaattag cctaactgcc aatatcaagt tgcagatttt 2221 aatccatgga aattgtgttt tgtgctgaat tgtatttgct gattacctga aattggcttc 2281 tttttattgg gcttctctgg agaatttctc ccactcccca cctctgcaga agaaatttt 2341 gctcttataa aacctcatgt tttcatcatt cctatctttt ctttttattg cctcttatat 2401 ctctgctctt tgacctcaag gtctagaggt ctgcagtaag ccaagaaaca aaggtggggt 2461 ggatgaggca aggtttgcag gagaaagagg aattgagaaa tggggtattt ttgctatcag 2521 ctcttctgct atgaagtagt aaaaggcagt ctataattaa ctgacagacc taactgaagc 2581 acagagaata catcagactt atgcatccaa gacatcagaa cttggatttt atcaaacttg 2641 atgacttctc taaaaggagc tttggaaact tcaaattcag ctataggata gtaccaatga 2701 acacatccag ctgatcccaa aagctgtttt caggtataag gacaaggaga ggagacaagt 2761 gacgacagcc attccccttt gcagctatct actgtagtga cagccatttc ttggttgatg 2821 ggttggaagt catcagaggt ttgaagaatt acactggcct ttgtttttct ggaaatgccg 2881 accatggaga tgctttagag tcttctaaaa tagcttagat gttgtaatga ggttagcttt 2941 gcttcataaa acaggggccc tcagaagttc tccttaaatt tttcaataaa aatttagctc 3001 ttaaaaaaat aacagtgtga ctgagtgaat gaagataagt tggattcttt cagagcattc 3061 ttttcctcaa aacgagctgc ataattcttg gaatttatgt cttaccacat ggtggaggga

Inventor: Pulst and Huynh
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3121 tgggggaact acaggatgca attcttcttc taccaatggg caatagaggt tgagagagat 3181 tcagcatctt tctgggatta gaattcaagt ctctttactc ctacagcagc tgcgtctcca 3241 acgttgagac tttgcagatg gcacagactc catggataat aggtaaactt ggggccgggc 3301 gcagtggctc acgcctgtaa tcccggtatt ttgggaggcc gaggtggaaa gatcgcttga 3361 gcccaggagt tcaagaccag cctgggctac atgacgaaac tccatctcta tcaaaaatac 3421 aaaaaattaa ctaggtgtgg tgctgcacgc ctgtggtccc agctattcag gaggctgagg 3481 tgggaggatc atttgagccc agaggtagag gctgcagtga gccatgatca tgccactgca 3541 ctctgggctg ggtaacagag tgagatcctg tctcaaaaat taattaatta attaattaaa 3601 ataaactagg taaacttgga taggcagtag atatttttgc ccacctgagg aggatctcag 3661 tcaagctgtt gcttaacagc ttgatccagg gcgtgaaagg ttagttgaga ctgaagtgtt 3721 cacttccata gaagaacatc acttttaacc ttgctttggc gaagggagtc ggaaagctga 3781 gtctctatgg acggggggt gatcttgctt tcagtgttcc ctcagctttt gtggatttaa 3841 aaccattctg ctccccctaa accttttgtt tgatttcagc ccatgttctt gacaatgcag 3901 agcaattctg agcagtcaca aagcctactc tctgttcttg tccctgccaa cccccacccc 3961 ccataatctg actcacaact tcaccatcag ttggggtcat accactagtc tctgtcctat 4021 accccatgaa atgtaaatac tgtatcataa gtagaagaaa ataatttttg ttttctaaaa 4081 atgcattttg agatagttta atgtaaatct gacaggagca ttctgaagcc ccattaggaa 4141 aaaatttaaa tggttcctct tcatcgcctt aatgtctaaa gatcagaaat cgctgagcaa 4201 acccgctttt gtttccttcc cagaaacaat gcaaaacaac aggtggagat agtctggtct 4261 ttgccctgct gtgtgtgcct ctgtagctcc tcctgacaaa cgtctgggaa aacagcctca 4321 ccccactctc ctctcttc cccatttcct tgtagcttta ttccttgcat ctttgggtct 4381 actgagcagt gggtgctgag gtgacagggg aggaaccagt tgttctgtag cctaggaact 4441 gcctcagtgt ctttgccaga aaaaggcaaa gaggcggaca gtgcagggct cctcctcct 4501 acctcaggcc tgatccatcg tgcccttgac tttgccgtct caaagtttct tagctgactt 4561 tggctttcac atttgttctt tccagagcta actgataaga gtggaggagg aatgccttct 4621 cctaagagtc agttgaaaga aagacaagag agtcacatct tagcttttgc acaaggcatt 4681 cgtggtcagg aataggttag ggaatggtca cttctgattt tccaacagtt gctccttctc

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FIGURE 12C CONTINUED

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MAEITNIRPSFDVSPVVAGLIGASVLVVCVSVTVFVWSCCHQQA

EKKHKNPPYKFIHMLKGISIYPETLSNKKKIIKVRRDKDGPGREGGRRNLLVDAAEAG
LLSRDKDPRGPSSGSCIDQLPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGS
LTFSVDYNFPKKALVVTIQEAHGLPVMDDQTQGSDPYIKMTILPDKRHRVKTRVLRKT
LDPVFDETFTFYVIPYSQLQDLVLHFLVLSFDRFSRDDVIGEVMVPLAGVDPSTGKVQ
LTRDIIKRNIQKCISRGELQVSLSYQPVAQRMTVVVLKARHLPKMDITGLSGNPYVKV
NVYYGRKRIAKKKTHVKKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFDRTTKNEV

VGRLILGAHSVTASGAEHWREVCESPRKPVAKWHSLSEY

FIGURE 12D